

In the United States Patent and Trademark office

In Re application of::)	Date: March 13, 2006
Carlos Daniel Jaffe)	Group art unit: 3732
Serial number 10/632,505)	Examiner: Candice Capri Stokes
Filed: 08/04/2003)	
For: All-in-one prophy angle)	
)	

Honorable Commissioner of Patents and Trademarks

Dear Sir:

In response to the communication from the examiner, dated February 27, 2006.

The following is the communication from the examiner:

DETAILED ACTION

Claim Rejections - 35 USC § 103
The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action: (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title. if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Claims 1-3,8-12,17-21, and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatcntable over Chipian et al (USPN 5,642,994). Chipian et al disclose a prophy angle comprising a prophy handpiece 105 with a driveshaft 140 with a first end with projections 210 and a second end attached to a prophy cup 110 with a longitudinal axial direction, a rear end and a front end, an inside and outside. With further regard to Claim 1, Chipian et al disclose "the present invention is a combination of the headpiece 100 described in Figs. 2A, 2B, and 2C and fluid agent storage container 300 shown in a preferred embodiment in Figs. 3A and 3B. The storage container 30 is the simplest of all the storage containers to be disclosed herein. The container 300 is a flexible bladder, similar in function and form to a tube of toothpaste, except a dispensing orifice 310 is offset from the center of an end cap 320 (see Fig. 3B)" (col. 6, lines 35-42). "The orifice 310 is designed to fit snugly into the interference tapered container port 250 of the headpiece 100, and still allow a fluid agent to flow out of the container 300 and into the port 250" (co1.6, lines 47-50). Further Chipian et al teach "To dispense the fluid agent, the headpiece 100 is secured to the dental instrument handpiece 105. The dispensing orifice 310 of a fluid agent tilled bladder 330 slides into the interference tapered container port" (col. 6, lines 62-65). "A fingertip or thumb presses from the sealed end 350 of the bladder 330, thereby forcing a fluid agent out of the bladder 330 and into the headpiece lumen 230, through the cup shaft 170 and into the prophy cup 110" (col. 7, lines 2-5). Chipian et al fail to disclose or reasonably teach the prophy cup 110 having an elastomeric material, however, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the prophy cup of an elastomeric material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. in re Leshin, 125 USPQ 416. Further, the drive shaft disclosed by Chipian et al is manually driven but it would have been obvious design choice to make it electrically driven. As to Claims 2,11, and 20 Chipian et al teaches a prophy cup having a front end with a skirt as shown in Fig. IA and explain "Fig. IA is a perspective view of the simple system that the inventors believe is probably the most similar in ppearance to the present invention" (col. 4, lines 53-56). Regarding Claims 3,12, and 21 Fig. 2A shows prophy cup 110 having a narrowing annular retaining lip at the bottom portion of cup 110. With regards to Claims 7,16, and 25 there is no further structural characteristics provided in these claims and the prophy cup disclosed by Chipian et al is capable of performing in the same manner as the claimed invention. Referring to Claims 9,18 and 27 Chipian et al disclose, "it may be advantageous to permanently embed the abrasive agent in the prophy cup material as shown in Fig. 11" (col. 7, lines 40-42). Chipian et al also teaches the invention as stated in Claim 8,10,17 and 26 however they do not teach the claimed ranges. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make a prophy angle as stated in these

claims with the specified ranges, since it has been held that where the general conditions of a claim are disclosed in the prior art,

discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Allowable Subject Matter

Claims 4-6,13-15,22-24, and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The above is a repeat of the first office action and has already been discussed.

Response to Arguments

Applicant's arguments filed 12/05/05 have been fully considered but they are not persuasive.

Regarding claims 1,10 and 19 Applicant's representative submits, "Chipian teaches away from any use of a solid prophy polish and does not disclose a way of enclosing the prophy polish exclusively within a prophy cup" (see page 3, 6th paragraph).

Please note in the first action response page 4, lines 3-10 "solid" and "contained exclusively within" are discussed. The claimed solid prophy polish is solid. Merriam-Webster defines solid as: " of uniformly close and coherent texture; not loose or spongy: compact; possessing or characterized by the properties of a solid: neither gaseous or liquid. In the present invention, this is the novelty. The paste is solid and does not flow as in Chipian. As will be noted in claim 5, the solid prophy paste must be dispensed with a spring; the solid prophy polish is not capable of flowing as in Chipian.

To the contrary, the Examiner asserts that Chipian et al disclose, "a preferred embodiment of a fluid storage container is a flexible tube that is depressed by a finger or thumb to dispense a fluid such as a prophylactic paste or a polishing lubricant to the prophy cup" (see abstract).

The above statement defines the prophylactic paste or polishing lubricant as being fluid. Fluid is not synonymous with solid. In Chipian the fluid storage container is external to the prophy cup, as opposed to contained within the cup. The above statement states the dispensing must be done with a finger or thumb. The finger or thumb requirement totally rules out the Chipian polish being stored within the

prophy cup because the prophy cup cannot be depressed due to the fact the prophy cup is rapidly rotating during a prophy (cleaning a patient's teeth).

Further, the claims do not state that the polish is enclosed exclusively within a prophy cup.

Line 8 of claim 1 states: "solid core prophy paste is contained longitudinally within the inside of the prophy cup." Line 9 of claim 10 states the same. Line 9 of claim 19 states the same. Nowhere within the specification and drawings of the present invention is the polish disclosed anywhere but within the prophy cup. I am sure we are in agreement that "within" or "inside" does not infer without or outside. It should not be necessary to claim what an invention is not.

So the prior art is not required to meet this limitation.

As discussed above, in Chipian the reservoir cannot be within the prophy cup. The prior art must meet this limitation.

Inherently, the prophy polish disclosed by Applicant must be at least somewhat fluid in order for its molecules to move freely paste each other similar to that of a toothpaste.

Absolutely not true. The paste in the present invention cannot be like toothpaste. There is no inherency. Your reference to "prophy polish disclosed by Applicant" is not descriptive of the invention. The invention claims "solid core prophy paste". A crayon is similar to the present invention. There is no requirement for a crayon to be somewhat fluid as there is no requirement for the solid core prophy paste to be somewhat fluid.

Further Applicant's representative submits, "a manually driven prophy angle in

dentistry has not existed since the invention of electrical motors" (see page 5, 5th paragraph).

The examiner had stated, in the first action, in reference to claim 1: "Further, the drive shaft disclosed by Chipian et al is manually driven but it would have been obvious to make it electrically driven."

The point here was that Chipian **did not reveal** a **manually** driven prophy angle as the examiner had stated. The Chipian prophy angle is power driven. The response clarified this point for the record. Further, claim 1 does not claim the power source, rather it explains the first driveshaft end is attached to a power source, electrical or power driven.

By applicant's own admission, it would be obvious to make a manually driven motor, electrically driven instead.

As discussed, Chipian did not disclose a manually driven prophy angle. The prior art did not disclose a manually driven motor (you mean manually driven prophy angle). The applicant did not admit something involving the prior art did not disclose.

As to claims 2, 11 and 20 it is submitted that "Chipian disclose the prophy cup 40 slightly flaring in its fill length; but, no definable skirt at the outer edge" (page 6, 1st paragraph).

Claims 2, 11 and 20 state: "flares outwardly towards the front end, the front end is used for polishing teeth". Note in claim 1, lines 4-7 " dental prophy cup with a longitudinal axial direction, a rear end and a front end with a front polishing portion..". In Fig. 2A below the axial direction is vertical with the cup back end, with the annular tip, at the top mounted to the handpiece the front end facing downwards. The **front end** of the prophy cup is **always used for polishing** the teeth. Do not confuse the front end of the prophy angle with the front end of the prophy cup.

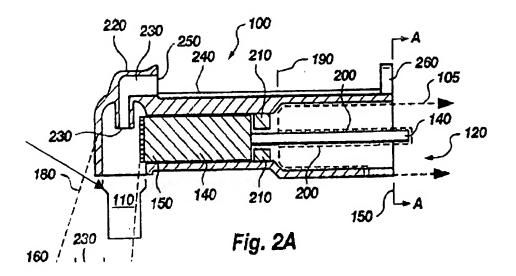
. The limitations of the amended version of claims 2,11, and 20 are met by the Chipian et al reference

because Chipian et al disclose the front end of the prophy cup flaring outwardly toward the front end,

As discussed above, the front end of the prophy cup is downwards away from the prophy handpiece. The front end of the prophy angle is on the left and should not be confused with the front end of the prophy cup. Chipian does not disclose the front end of the prophy cup flaring.

Regarding claims 3,12, and 21 Figure 2A of the Chipian et al reference (also reproduced below) does show an annular lip "within the inside of the prophy cup" as recited in the claims.

The claims do not state an annular lip "within the inside of the prophy cup". The claims state: "an annular retaining lip defines the inside of the front end of the prophy cup". Chipian in Fig. 2A disclosed an annular lip on the outside of the back end of the prophy cup. Fig. 2A does not disclose the inside of the prophy cup. Chipian does not disclose the annular lip within the prophy cup.



Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.

MPEP 706.07(a) states:

Under present practice, second or any subsequent actions on the merits shall be final, except where the examiner introduces a new ground of rejection that is neither necessitated by applicant's amendment of the claims nor based on information submitted in an information disclosure statement filed during the period set forth in 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p). Where information is sub-

The only amendments to claims 1, 10 and 19 are "....a front end (prophy cup) with a front polishing portion." The examiner discusses the topics of solid prophy polish and polish exclusively within a prophy cup, which are not necessitated by the above amendment.

The amendments to claims 2, 11 and 20 did not change the description of a prophy cup with a flared front end. The discussion of the location of the flared end in the prophy cup in Chipian was not necessitated by the amendments.

Claims 3, 12 and 21 were not amended: therefore, did not necessitate the discussion of the annular lip.

The present action should not have been final.

MPEP 706.07(f) states further argument will be considered under certain instances. I don't believe, in the present response, new arguments have been presented, only a repeat of prior arguments in light of the examiner's present response.

Respectfully submitted

Neil John Graham

Reg. No. 51,179

MAR 1 5 2006 PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Vinder the F Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/632,505 Filing Date TRANSMITTAL 08/04/2003 First Named Inventor Carlos Daniel Jaffe **FORM** Art Unit 3732 **Examiner Name** Candice Capri Stokes (to be used for all correspondence after initial filing) Attorney Docket Number 51,179 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) **/** Petition Amendment/Reply Petition to Convert to a Proprietary Information Provisional Application After Final Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Identify Terminal Disclaimer below): Extension of Time Request Request for Refund Express Abandonment Request CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Remarks Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Neil John Graham Signature Printed name

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Signature	Alex Ilaha Maken			
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Reg. No.

51,179

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.